Message

From: Cirian, Mike [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP

(FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=98D0FD2CBB3F4F25B819C6929E18D08D-CIRIAN, MIKE]

Sent: 4/12/2018 10:42:18 PM

To: Michael Ritorto [mritorto@rouxinc.com]; Andrew Baris [abaris@rouxinc.com]

CC: Gunnar Emilsson [EmilssonGR@cdmsmith.com]; Dick Sloan [rsloan@mt.gov]; John.Stroiazzo@glencore.ca; Steve

Wright - CFAC [swright@cfaluminum.com]

Subject: FW: CFAC SAP comments

Attachments: Columbia Falls_Phase II SAP_Comments_dlb_4-12-2018.docx

Below are Brian Sanchez' comments and Attached are David Berry's.

Please invite them to the call next week.

Mike

Mike Cirian, PE Libby On-site Project Manager US EPA 108 East 9th Street Libby, MT 59923 (406) 293-6194 Office

Section 4.1, last sentence of 2nd paragraph: "...WP and BERA WP, the sampling design proposed for the Phase II Site Characterization includes a minimum of 8 to 10 observations (and most of the time more than 10) for each matrix evaluated in the exposure analysis." What are considered as the 8-10 "observations"? Is this 8-10 analytical values for each compound for each matrix at each site? 8-10 samples per exposure unit? Some clarification here would help.

Table 5: Total TAL Metals are included here, but not Dissolved TAL Metals. The inclusion of dissolved metals is referred to in Table 1 and in the text. Suggest including it in Table 5 as well.

Table 10: I don't believe that we will use groundwater data to evaluate ecological risk. This table may not be necessary.

Brian Sanchez
Superfund Technical Assistance Unit
U.S. EPA, Region 8
1595 Wynkoop Street
Denver, CO 80202

Phone: 303-312-6659